

REPORT ON BOILERS.

No. 54364.

Port of Newcastle

Received at London Office

THUR. 27 FEB 1908

in Survey held at Gateshead
Book.

Date, first Survey

Nov. 8th

Last Survey

18th Dec

1907

(Number of Visits)

Total

Tons }
Gross
Net54 on the S. S. "Sunmail"

Built at

By whom built

When built

Plates made at

By whom made

When made

Plates made at

Gateshead

By whom made

Clarke Chapman & Co 2764d

When made

1907

Registered Horse Power

Owners

Port belonging to

LATTICULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

For record

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Working Pressure

Tested by hydraulic pressure to

Date of test

of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

of valves to each boiler

Area of each valve

Pressure to which they are adjusted

they fitted with easing gear

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Pitch of riveting: cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by

plate

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each

Material

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

bottom

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at

Least part

Area supported by each stay

Working pressure by rules

End plates in steam space: Material

Thickness

of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of

Front back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide

of spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and thickness of

at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

VERTICAL DONKEY BOILER—

No. 1

Description Cross-tube

Manufacturers of steel

J. Spencer & SonsMade at Gateshead

By whom made

Clarke Chapman & Co

When made

1907

Where fixed

Stonefield

Working pressure

80 lbs

Tested by hydraulic pressure to

160 lbs

Date of test

18/12/07

No. of Certificate

7647

Fire grate area

17.72

Description of safety valves

Spring-loaded

of safety valves

1

Area of each

9.62

Pressure to which they are adjusted

80 lbs

If steam from main boilers can

enter the donkey boiler

yes

If steam from main boilers can

enter the donkey boiler

Length of donkey boiler

no

Dia. of donkey boiler

5'-6"

Length

12'-0"

Material of shell plates

Steel

Thickness

13/32

Range of tensile

Descrip. of riveting long. seams

8. Lap

Dia. of rivet holes

13/16

Whether punched or drilled

dulled

Pitch of rivets

3"

of plating

4/8"

Per centage of strength of joint

Rivets

72.5

Working pressure of shell by rules

99 lbs

Thickness of shell crown plates

9/16"

Diam. of do.

5'-0"

No. of Stays to do.

5

Dia. of stays

1 1/2"

Diameter of furnace

Top

4'-2 1/2"

Bottom

4'-8"

Length of furnace

4'-9"

Thickness of furnace plates

9/16"

Description of joint

S. Lap

Working pressure of furnace by rules

105 lbs

Thickness of furnace crown

of do.

1/2"

Radius of do.

5'-0"

Stayed by

as above

Diameter of uptake

14"

Thickness of uptake plates

3/8"

Thickness of water tubes

3/8"

The foregoing is a correct description,

Manufacturer.

During progress of

work in shops -- 1907 Nov. 8, 12, 18, 26 Dec. 24, 25, 26, 27, 28

During erection on

board vessel -- 1908: Feb. 28 Mar. 26, 10, 18 Apr. 23, 24.

Total No. of visits

10

Filling outboard -- 7

Is the approved plan of main boiler forwarded herewith

" donkey "

Lloyd's Register
Foundation

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good

Inspected & certified by J. MacKillop

9603

5610

46

1456

By J. MacKillop

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special ...	£	:	:	When received.
Donkey Boiler Fee ...	£	2	2	
Travelling Expenses (if any) £	:	:	:	

Paid 1.2.08 H.W.

J. G. MacKillop & Thomas Field

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE 5 MAY 1908

Assigned

See minute on

By Rpt 4874



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